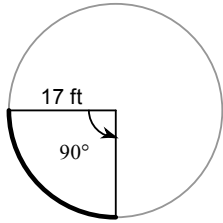


# Arc Length and Sector Area

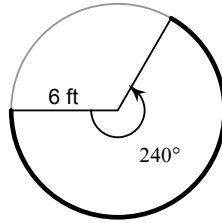
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**Find the length of each arc. Round your answers to the nearest tenth.**

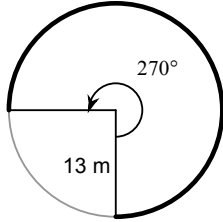
1)



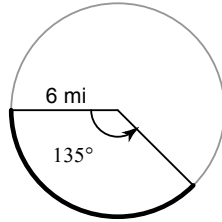
2)



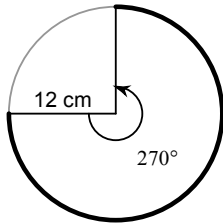
3)



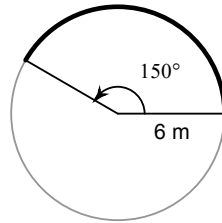
4)



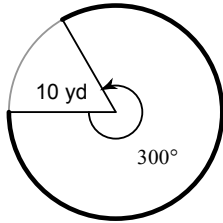
5)



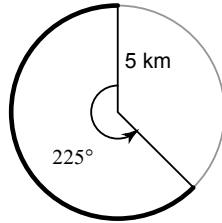
6)



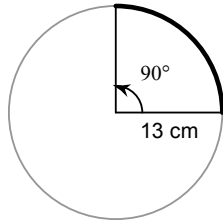
7)



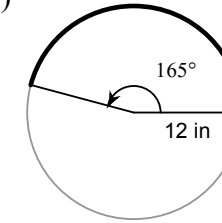
8)



9)



10)



11)  $r = 15 \text{ ft}, \theta = 75^\circ$

12)  $r = 3 \text{ m}, \theta = 45^\circ$

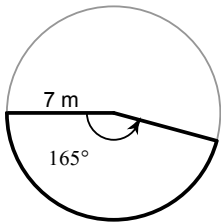
13)  $r = 6 \text{ in}, \theta = 90^\circ$

14)  $r = 14 \text{ yd}, \theta = 45^\circ$

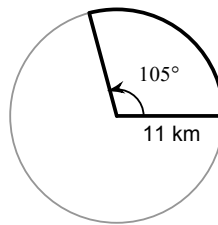
15)  $r = 15$  yd,  $\theta = 285^\circ$

Find the area of each sector. Round your answers to the nearest tenth.

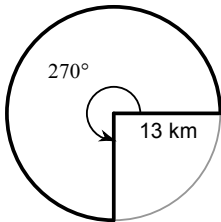
16)



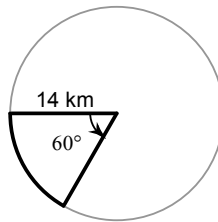
17)



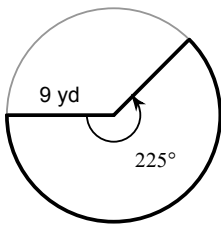
18)



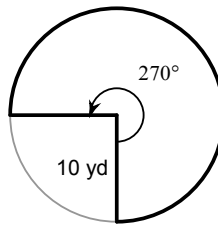
19)



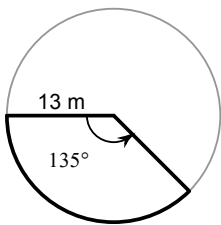
20)



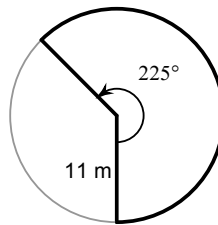
21)



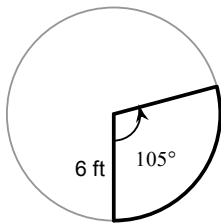
22)



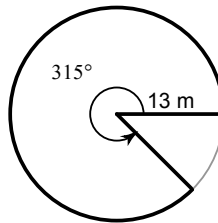
23)



24)



25)



26)  $r = 13$  cm,  $\theta = 90^\circ$

27)  $r = 12$  cm,  $\theta = 135^\circ$

28)  $r = 6$  km,  $\theta = 90^\circ$

29)  $r = 12$  yd,  $\theta = 105^\circ$

30)  $r = 8$  yd,  $\theta = 90^\circ$